

**Claims:**

1. An odontological device for guiding the occlusion of an individual, said device comprising:
  - 5       - a generally U-shaped arch that has a lower surface on the lower jaw side and an upper surface on the upper jaw side,
  - the bottoms of the mentioned concaves forming an isthmus separating the concaves and the walls of the concaves are formed by the outer walls on the labial or buccal side, respectively, and of inner walls arranged on the opposite
  - 10       sides of the concaves on the lingual side of the tongue, the isthmus between the concaves having recesses, a part of which are meant for individual teeth,
 wherein
  - the recesses for the back teeth consist of uniform compartments, which start from the second premolar and continue towards the molars at least partially
  - 15       to the area where the second permanent molar will erupt.
2. An odontological device according to Claim 1, wherein the side walls of the mentioned uniform compartments are formed by outer and correspondingly inner walls, which have essentially straight walls.
- 20       3. An odontological device according to Claim 1, wherein said compartments are shaped like continuous troughs, and the troughs are open from the molar side end.
- 25       4. An odontological device according to claim 1, wherein said recesses contain uniform recesses limited to the area of the front teeth, and the walls of the hollows are essentially smooth-surfaced.
- 30       5. An odontological device according to claim 1, wherein said concaves have their own blanks for canine teeth and the first premolars.
- 35       6. An odontological device according to claim 1, wherein said isthmus separating the concaves is thicker at least in the area of the molars than in the area of the front teeth.
7. An odontological device according to Claim 6, wherein said isthmus

thickness changes stepwise at the point between the premolars.

8. An odontological device according to Claim 6, wherein said isthmus is essentially even in such a way that its thickness in the narrower area is essentially in fixed range of approximately 1 to 10 mm and 3 – 13 mm, respectively, in the thicker area.
9. An odontological device according to claim 1, wherein the inner wall on the side of the lower jaw forms a wing constricting the tongue at least sideways, and the wing is shaped to help keep the device firmly in place in the individual's mouth.
10. An odontological device according to Claim 9, wherein said lower wing has been continued at least essentially aligned downwards with the surface of the mentioned inner wall in such a way that it extends lower than the corresponding outer wall.
11. An odontological device according to claim 9, wherein said lower wing has been arranged so as to reach the immediate proximity of the base of the mouth cavity.
12. An odontological device according to Claim 9 wherein said shape of the lower wing, particularly in the molar area, follows essentially the shape of the lower side jaw arch.
13. An odontological device according to claim 9, wherein the downwards dimension of the mentioned lower wing has been reduced at the point of the ligament of the tongue.
14. An odontological device according to Claim 13, wherein said lower wing extends approximately at the point of the first molar to a distance of 14 mm as a maximum of the down side surface of said isthmus, in which case said distance is approx. 3 to 6mm smaller in the area of the ligament of the tongue.
15. An odontological device according to claim 10, wherein the outer wall on the upper jaw side surface has been at least partially continued upwards at least

essentially aligned upwards to the wall surface in such a way that it extends above the gum line.

16. An odontological device according to Claim 15, wherein said upper side  
5 outer wall extends essentially above the gum line at least in the area of the first and second tooth, and preferably also in the area of the third and fourth tooth.

17. An odontological device according to Claim 15 wherein said upper outer  
10 wall extends at its highest point to approx. 10 mm from the distance of the upper side surface of said isthmus.

18. An odontological device according to claim 1, wherein when the upper side  
arch, measured essentially along the base of the arch and between the second and  
third tooth, is approx. 32 mm, the length of the compartment starting from the  
15 second premolar and terminating in an open end is 22 mm on the upper side and 24 mm on the lower side, and correspondingly, when the length of the mentioned arch is 37 mm, the length of the compartment is 24 mm on the upper side and 27 mm on the lower side.

20 19. An odontological series of devices, containing a series of essentially  
conformal devices of different sizes, wherein the devices correspond to an  
odontological device according to Claim 1.

20. A series of devices according to Claim 19, wherein the upper side arch of a  
25 device in the series, measured along the base of the arch and between the second and third tooth, is less than about 26 mm, the maximum distance of the lower wing lower edge to the equivalent point on the surface of the isthmus between the masticating surfaces is approximately 8 to 10 mm, and when the mentioned arch is over 26 mm said maximum distance is about 14 mm. .

30 21. An odontological device series according to Claim 19 wherein when the upper side arch of a device in the series, measured essentially along the base of the arch and between the second and third tooth, is approx. 32 mm, the length of the mentioned compartment starting from the second premolar and terminating in an  
35 open end is 22 mm on the upper side and 24 mm on the lower side, and correspondingly, when the length of the mentioned arch is 37 mm, the length of the

compartment is 24 mm on the upper side and 27 mm on the lower side.

22. A device series according to claim 19, wherein the smallest device in the series has the mentioned arch length of less than 26 mm and the largest 36 mm as  
5 a minimum, preferably at least of approx. 38 mm.

23. A device series according to claim 19, wherein the length of the smallest device in the series, measured from the wall on the lingual side of the front teeth to the line connecting the open ends of the molar areas, is essentially less than 40 mm  
10 and the upper side front wall at least 5 mm high.

24. A device series according to wherein the

25. A method in orthodontics for selecting an occlusion guidance appliance  
15 device, according to which method

- at least one characteristic measurement is defined for an individual's teeth, and
- based on this measurement an appropriate device is selected for that individual,

20 comprising the steps of:

- measuring the length of the upper jaw side dental arch from the individual's teeth between the left and right hand side front and middle teeth or two middle teeth,
- choosing, based on the measurement without taking separately into  
25 consideration the developmental phase of the teeth, a suitable occlusion guidance appliance device from an occlusion guidance appliance device series, which contains several essentially conformal and different-sized occlusion guidance appliance devices.

30 26. A method according to Claim 25, wherein the device is selected from an occlusion guidance appliance device series according to claim 19.

27. A method according to Claim 25, wherein the measurement of the dental arch is taken from the anatomy along the outer surface and a device is selected  
35 based on the resulting measurement, the arch measurement of which is 1 – 2 mm smaller than the measurement according to the anatomy.